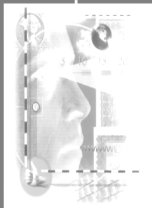


6th – Knowing Our Numbers II



- Large number in use
- Conversion of length, mass and capacity
- In our daily life we use measurements of length, mass, and capacity. For measurement of length we use millimeter, centimeter, meter, and kilometer.

$$1000\text{mm} = 1\text{m}$$

$$1000\text{ml} = 1\text{ liter}$$

$$1000\text{gram} = 1\text{ kilogram}$$

$$1000\text{m} = 1\text{ km}$$

$$1000\text{ milligrams} = 1\text{ gram}$$

1. Introduce $>$, $<$, or $=$ in the given situation.

(a) $8\text{m} \underline{\hspace{1cm}} 850\text{ cm}$ (b) $4\text{cm} \underline{\hspace{1cm}} 450\text{ mm}$ (c) $3\text{km} \underline{\hspace{1cm}} 300\text{mm}$

(d) $5000\text{ cm} \underline{\hspace{1cm}} 5\text{m}$ (e) $5000\text{ml} \underline{\hspace{1cm}} 20\text{l}$ (f) $2000\text{l} \underline{\hspace{1cm}} 2\text{kl}$

1. The length and breadth of a field are 450 meters and 250 meters respectively. A boundary wall is to be built round the field. One meter length of the wall requires 200 bricks. How many bricks should be purchased for this purpose?

2. A truck carries 65 boxes. Each of these boxes contains 80 smaller packages. Each of these smaller packages contains 15 toy soldiers. How many toy soldiers are being carried in the truck?

3. The number of sheets of paper available for making notebooks is 75000. Each sheet makes 8 pages of a notebook. Each notebook contains 200 pages. How many notebooks can be made from the paper available?

4. The capacity of a water tank in a housing colony is 64 kiloliters. This is sufficient for 80 families in the colony for 4 days. What is the average quantity of water used per day per household?

5. To stitch a suit 2m 15cm cloth is needed. Out of 40m cloth, how many suits can be stitched and how much cloth will remain?

6. The distance between the school and home of Ram is 3km 287m. Every day he walks both ways. Find the total distance by him in 5 days.

7. X and Y worked as salesperson at a bookstore. They sold 6283 story books in all. X sold 3324 story books. How many story books were sold by Y?

8. A factory makes 132 machines per day. How many machines will the factory make in March?

9. If a table costs Rs 450 and a chair costs Rs 225, find the total amount needed to buy 30 table and 50 chairs. ?

10. A Game zone was held for four days in a school. The number of tickets sold at the counter on the first, second, third and final day was respectively 1091, 1802, 1050 and 1751. Find the total number of tickets sold on?

11. Population of Agra and Aligarh districts in the year 2001 was 36,20, 436 and 29,92,286, respectively. What was the total population of the two districts in that year?

12. The town newspaper is published every day. One copy has 12 pages. Everyday 11,980 copies are printed. How many total pages are printed everyday?

Roman numerals: One of the earliest systems of writing numerals is the Roman numeral system. Rule to form Roman numerals

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Rule 1: if a symbol is repeated one after the other, its value is added as many times as it occurs.

Rule 2: the symbol 1, X, C, and M can be repeated up to a maximum of three times.

Rule 3: the symbol V, L, and D can never be repeated in a Roman numeral.

Rule 4: if a symbol with a smaller value is written on the right of a symbol with a greater value, then its value is added to the value of the greater symbol.

Rule 5: if a symbol with a smaller value is written on the left of a symbol with a large value, then its value is subtracted from the value of the greater symbol.

1. Write the equivalent Roman numeral of the following Hindu-Arabic numerals

(a) 15 (b) 21 (c) 25 (d) 38 (e) 1100 (f) 1210

2. Write the equivalent Hindu-Arabic numerals of the following Roman numerals

(a) XXIII (b) LXXXV (c) CD (d) XCIV (e) XCVIII (f) DCC

(b) Raju is 22 years old and Ramu is 19 years old. Write the difference of their ages in Roman system

